## (19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 14 April 2005 (14.04.2005)

## (10) International Publication Number WO 2005/033220 A1

(51) International Patent Classification7: 11/02, B41M 5/30

C09D 11/00.

(74) Agents: SCOTT, Susan, Margaret et al.; Abel & Imray, 20 Red Lion Street, London WC1R 4PQ (GB).

(21) International Application Number:

PCT/GB2004/004149

(22) International Filing Date:

29 September 2004 (29.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0322907.7

30 September 2003 (30.09.2003)

- (71) Applicant (for all designated States except US): ARJO WIGGINS LIMITED [GB/GB]; St. Clement House, Alencon Link, Basingstoke, Hampshire RG21 7SB (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WARD-ASKEY, Andrew [GB/GB]; 39 Maryside, Langley, Berks SL3 7ES (GB). COOPER, John, Brian [GB/GB]; The House at Pooh Corner, Home Lane, Sparsholt, Nr Winchester, Hants SO21 2NN (GB). HOBSON, Michael, Eric [GB/GB]; 5 Bell Crescent, Longwick, Bucks HP27 9SE (GB).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

ZW.

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVEMENTS IN THERMAL INK

(57) Abstract: A thermal ink which comprises a colour former, a colour developer and a sensitizer, characterised in that the colour former comprises 3-dibutylamino-6-methyl-7-anilinofluoran; the colour developer comprises bisphenol A; and the sensitizer comprises dimethyl terephthalate; and that the ink also comprises at least one pigment. This ink may be used in thermal papers to reduce unwanted discolouration during storage.

